

Effect of sodium dodecyl sulfate on the reactivity of copper(II) complexes with 2-dimethylaminomethylphenol

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Abstract

The effects of the anionic surfactant sodium dodecyl sulfate on complex formation of 2-dimethylaminomethylphenol (1) with copper(II) in aqueous solutions and on the kinetics of the reactions of copper(II) complexes of 1 with 4-nitrophenylbis(chloromethyl)phosphinate (2) were studied. The reactivities of the complexes in these reactions are higher than that of 1 at all concentrations of SDS studied (0.010-0.200 mol L⁻¹) with pH 7-9. © 1996 Plenum Publishing Corporation.

Keywords

Complex formation, kinetics, Sodium dodecyl sulfate, copper(II), 2-dimethylaminomethylphenol